

INCH-POUND

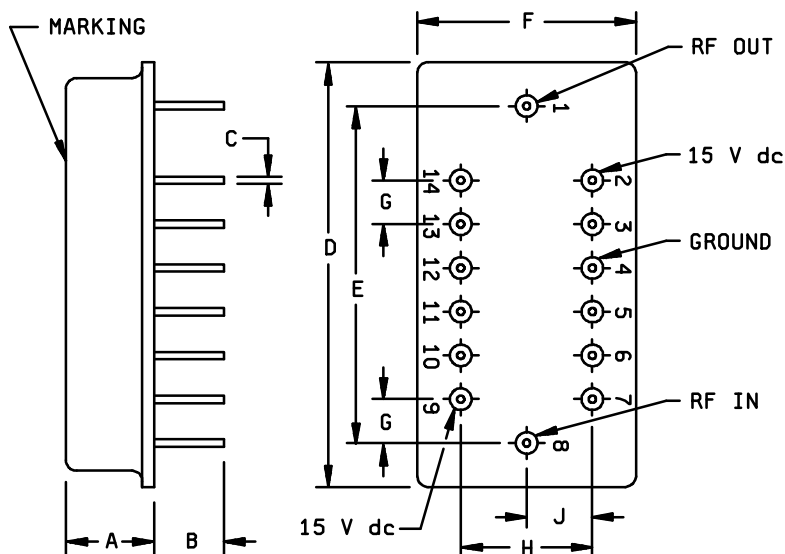
MIL-DTL-28875/1A  
24 August 2000  
SUPERSEDING  
MIL-A-28875/1  
27 July 1983

## DETAIL SPECIFICATION SHEET

### AMPLIFIERS, RADIO-FREQUENCY AND MICROWAVE, SOLID-STATE, NARROW-BAND, DIP CONFIGURATION

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the amplifiers described herein shall consist of this specification sheet and the latest revision of MIL-DTL-28875.



	Inches		Millimeters	
	Max	Min	Max	Min
A	.200	-	5.08	-
B	.185	.140	4.70	3.56
C	.019 dia	.016 dia	.48 dia	.41 dia
D	.980	.960	24.89	24.38
E	.780	.760	19.81	19.30
F	.508	.488	12.90	12.40
G	.110 typ	.090 typ	2.79 typ	2.29 typ
H	.310	.290	7.87	7.37
J	.160	.140	4.06	3.56

#### NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only (1.00 in = 25.4 mm).
3. All unidentified pins are no connections.

FIGURE 1. Dimensions and configuration.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Frequency range: 3 to 4 GHz.

DC input power:

15 volts  $\pm 1$  percent.

80 mA maximum.

RF input power: Not greater than 7 dBm.

Gain: 5 dB minimum.

Gain flatness:  $\pm 0.5$  dB maximum.

Power output: 11 dBm minimum.

VSWR: 1.5:1 maximum.

Noise figure: 9.5 dB maximum.

Third order intercept point: +21 dBm.

Operating temperature range: -54°C to +125°C (case temperature).

Vibration: Random test in accordance with requirement of MIL-DTL-28875.

Seal: Hermetic.

Salt spray: Test is required.

Explosion: Test is required.

Thermal shock: Temperature range -54°C to +85°C.

Electromagnetic interference:

RF leakage: 65 dB below the RF input signal level.

Susceptability: 65 dB of isolation between external RF fields and internal signal paths.

Part or Identifying number (PIN): M28875/1 -01S1 or -01S2 or -01N

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:

DLA - CC

Project number (5985-1208-02)

Review activities:

Army - AV, MI  
Navy - AS, MC, OS, SH  
Air Force - 19, 99